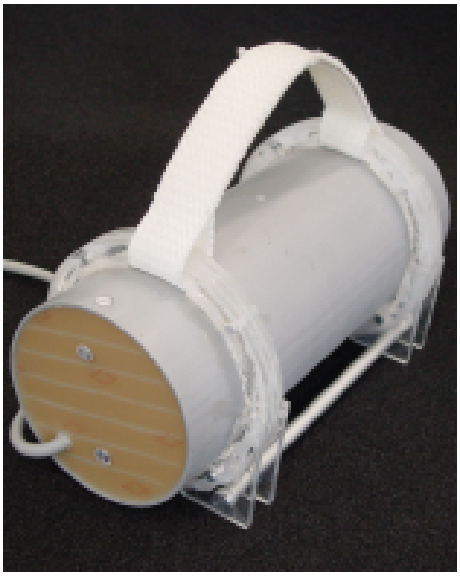
Magson Proton Magnetometers

The PM 99/1 is a classical proton magnetometer controlled by an internal micro processor.
The frequency adjustment of the sensor and amplifiers will be done in 256 steps automatically in dependency of the external field magnitude. Also the polarisation current depends on the external field. The design of the sensor coil provides an optimal protection against electromagnetic interferences. Single measurements as well as short time series are supported by the data acquisition system. Therefore the PM 99/1 can be applied in geomagnetic observatories, for repeat station measurements and to investigate local geomagnetic anomalies. In connection with a PC registrations of the variation of the geomagnetic total force is possible during longer periods too.
Combined with a MAGSON precision coil and a suitable mechanical basis the PM99/1 can be offered for geomagnetic vector measurements.

Technical Data:

Range	22000 – 60000nT
Resolution	0.1nT
Noise (pp)	0.3nT
Working temperature	0°C-50°C
Reference frequency	10MHz
Reference accuracy	10^{-7}
Supply voltage	12V
Power active	4W
Power standby	1W
Internal battery	2Ah
Interface	RS232
Internal memory	2000 samples
Measurement modes	external start (manual triggered) internal start (continuous measurement)
Operation	manual or PC controlled (via RS 232)



proton magnetometer sensor

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